

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Yoichiro MORI, et al.
Serial No. Not Yet Assigned
Filing Date Herewith
Title SOLUBLE LUBRICATING SURFACE-TREATED
 STAINLESS STEEL SHEET WITH EXCELLENT
 SHAPABILITY FOR FUEL TANK AND METHOD FOR
 MANUFACTURING FUEL TANK

PRELIMINARY AMENDMENT

Please amend the above-identified application as follows:

In the claims:

Please cancel Claims 4-11 and 15 without prejudice.

Please add the following new claims:

22. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 2, wherein the amount of an acid group contained in (A) the soluble polyurethane resin composition for forming a soluble lubricating resin film is from 30 to 180 in terms of an acid value.
23. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 3, wherein the amount of an acid group contained in (A) the soluble polyurethane resin composition for forming a soluble lubricating resin film is from 30 to 180 in terms of an acid value.
24. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 2, wherein the neutralizer for the acid group contained in (A) the soluble polyurethane resin composition for forming a soluble lubricating resin film is sodium hydroxide or potassium hydroxide.
25. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 3, wherein the neutralizer for the acid group contained in (A) the soluble polyurethane resin composition for forming a soluble lubricating resin film is sodium hydroxide or potassium hydroxide.

26. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 2, wherein the main component constituting (A) the soluble polyurethane resin composition for forming a soluble lubricating resin film is polyester polyol.
27. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 3, wherein the main component constituting (A) the soluble polyurethane resin composition for forming a soluble lubricating resin film is polyester polyol.
28. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 2, wherein the main component constituting (A) the soluble polyurethane resin composition for forming a soluble lubricating resin film is polyether polyol.
29. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 3, wherein the main component constituting (A) the soluble polyurethane resin composition for forming a soluble lubricating resin film is polyether polyol.
30. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 2, wherein the lubricating function-imparting agent (B) comprises one or more members selected from the group consisting of polyolefin-based wax, fluorine-containing wax, paraffin-based wax and stearic acid-based wax.
31. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 3, wherein the lubricating function-imparting agent (B) comprises one or more members selected from the group consisting of polyolefin-based wax, fluorine-containing wax, paraffin-based wax and stearic acid-based wax.
32. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 2, wherein the substrate is an austenite-type stainless steel sheet comprising, in % by mass:
- | | |
|-----|-------------------|
| C: | 0.5% or less, |
| Si: | 5% or less, |
| Mn: | 15% or less, |
| P: | 0.1% or less, |
| S: | 0.05% or less, |
| Ni: | 6 to 20%, |
| Cr: | 15 to 30%, |
| N: | 0.5% or less, and |
| Al: | 0.001 to 5% |
- with the balance consisting of Fe and inevitable impurities.

33. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 3, wherein the substrate is an austenite-type stainless steel sheet comprising, in % by mass:
- C: 0.5% or less,
 - Si: 5% or less,
 - Mn: 15% or less,
 - P: 0.1% or less,
 - S: 0.05% or less,
 - Ni: 6 to 20%,
 - Cr: 15 to 30%,
 - N: 0.5% or less, and
 - Al: 0.001 to 5%
- with the balance consisting of Fe and inevitable impurities.
34. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 1, wherein the substrate is a ferrite-type stainless steel sheet comprising, in % by mass:
- C: 0.5% or less,
 - Si: 3% or less,
 - Mn: 5% or less,
 - P: 0.1% or less,
 - S: 0.05% or less,
 - Ni: 5% or less,
 - Cr: 9 to 30%,
 - N: 0.2% or less, and
 - Al: 0.001 to 5%
- with the balance consisting of Fe and inevitable impurities.
35. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 2, wherein the substrate is a ferrite-type stainless steel sheet comprising, in % by mass:
- C: 0.5% or less,
 - Si: 3% or less,
 - Mn: 5% or less,
 - P: 0.1% or less,
 - S: 0.05% or less,
 - Ni: 5% or less,
 - Cr: 9 to 30%,
 - N: 0.2% or less, and
 - Al: 0.001 to 5%
- with the balance consisting of Fe and inevitable impurities.

36. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 3, wherein the substrate is a ferrite-type stainless steel sheet comprising, in % by mass:

C: 0.5% or less,
Si: 3% or less,
Mn: 5% or less,
P: 0.1% or less,
S: 0.05% or less,
Ni: 5% or less,
Cr: 9 to 30%,
N: 0.2% or less, and
Al: 0.001 to 5%

with the balance consisting of Fe and inevitable impurities.

37. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 1, wherein the substrate is a two phase-type stainless steel sheet comprising, in % by mass:

C: 0.5% or less,
Si: 5% or less,
Mn: 15% or less,
P: 0.1% or less,
S: 0.05% or less,
Ni: 2 to 20%,
Cr: 12 to 30%,
N: 0.5% or less, and
Al: 0.001 to 5%

with the balance consisting of Fe and inevitable impurities.

38. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 2, wherein the substrate is a two phase-type stainless steel sheet comprising, in % by mass:

C: 0.5% or less,
Si: 5% or less,
Mn: 15% or less,
P: 0.1% or less,
S: 0.05% or less,
Ni: 2 to 20%,
Cr: 12 to 30%,
N: 0.5% or less, and
Al: 0.001 to 5%

with the balance consisting of Fe and inevitable impurities.

39. (New) The soluble lubricating surface-treated stainless steel sheet for fuel tanks as claimed in claim 3, wherein the substrate is a two phase-type stainless steel sheet comprising, in % by mass:
- C: 0.5% or less,
 - Si: 5% or less,
 - Mn: 15% or less,
 - P: 0.1% or less,
 - S: 0.05% or less,
 - Ni: 2 to 20%,
 - Cr: 12 to 30%,
 - N: 0.5% or less, and
 - Al: 0.001 to 5%
- with the balance consisting of Fe and inevitable impurities.
40. (New) A method for manufacturing a fuel tank, comprising a step of molding the soluble lubricating surface-treated stainless steel sheet for fuel tank, which is covered with a soluble lubricating resin film, as claimed in claim 1, a step of treating the molded soluble lubricating surface-treated stainless steel sheet with an alkali or hot water to remove said soluble lubricating resin film, and a step of welding said soluble lubricating surface-treated stainless steel sheet after the removal of said soluble lubricating resin film.
41. (New) A method for manufacturing a fuel tank, comprising a step of molding the soluble lubricating surface-treated stainless steel sheet for fuel tank, which is covered with a soluble lubricating resin film, as claimed in claim 2, a step of treating the molded soluble lubricating surface-treated stainless steel sheet with an alkali or hot water to remove said soluble lubricating resin film, and a step of welding said soluble lubricating surface-treated stainless steel sheet after the removal of said soluble lubricating resin film.
42. (New) A method for manufacturing a fuel tank, comprising a step of molding the soluble lubricating surface-treated stainless steel sheet for fuel tank, which is covered with a soluble lubricating resin film, as claimed in claim 3, a step of treating the molded soluble lubricating surface-treated stainless steel sheet with an alkali or hot water to remove said soluble lubricating resin film, and a step of welding said soluble lubricating surface-treated stainless steel sheet after the removal of said soluble lubricating resin film.

REMARKS

This Preliminary Amendment is being submitted to eliminate multiple dependent claims.

It is respectfully submitted that the subject matter of the present application is new, non-obvious, and useful. Prompt consideration and allowance of the application are respectfully requested.

Respectfully submitted,

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